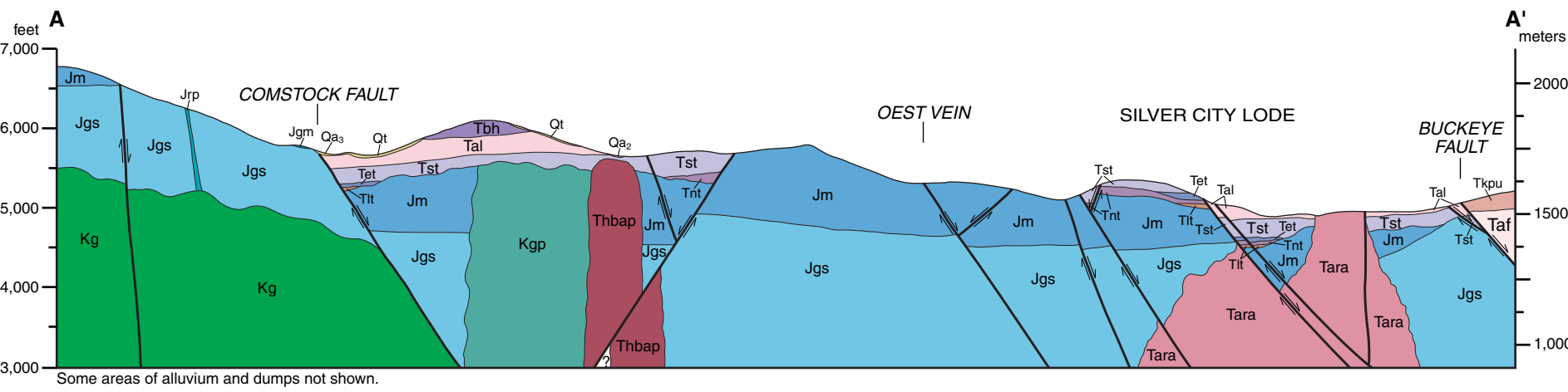


- d Dumps
- Qs Sand
- Qt Talus
- Qa<sub>1</sub> Young alluvium
- Qa<sub>2</sub> Intermediate - age alluvium
- Qa<sub>3</sub> Old alluvium
- Ob American Flat Basalt
- Tbbi Big boulder lahar
- Tbd Black dike (no outcrops)
- Tbh Andesite of Basalt Hill
- Tka Knickerbocker Andesite
- Tkai Knickerbocker Andesite intrusion
- Tia Andesite porphyry dikes
- Kate Peak Formation
  - Tkpu Upper member flows and lahars
  - Tkpu Upper member intrusion or dome
  - Tkpi Lower member flows
  - Tkpi Lower member intrusion
- Thp Hornblende andesite porphyry dikes
- Tri Rhyolite intrusion
- Thbap Hornblende biotite andesite porphyry
- Davidson Diorite
  - Tdd Davidson Diorite
  - Tdep Andesite porphyry intrusion
  - Tdaf Andesite porphyry flows
- Thpax Pyroxene hornblende andesite porphyry intrusion
- Thpap Hollow hornblende pyroxene andesite porphyry
- Tara American Ravine Andesite (intrusion)
- Alta Formation
  - Taf Upper member flows
  - Tafs Upper member sandstone and conglomerate
  - Tafb Upper member autocbreccia
  - Tas Suro Member
  - Tal Lower member flows and breccias
  - Tals Lower member sandstone and conglomerate
  - Tall Lower member lahars
  - Taph Plagioclase-hornblende andesite flow rock
  - Tah Hornblende andesite
  - Tabc Bailey Canyon member andesitic flows and lahars
  - Tabcb Bailey Canyon member basaltic lahars
  - Tabcl Bailey Canyon member intrusion
- Tppa Phenocryst-poor andesite
- Tpphb Plagioclase-hornblende-pyroxene-biotite flow
- Tbr Biotite rhyolite
- Tut Unnamed lithic ash-flow tuff
- Tst Santiago Canyon Tuff
- Tsg Santiago Canyon Tuff basal gravel
- Tet Eureka Canyon Tuff
- Tnt Nine Hill Tuff
- Tng Nine Hill Tuff basal gravel
- Tlt Lenihan Canyon Tuff
- Tlg Lenihan Canyon Tuff basal gravel
- Tgm Guild Mine Member, Mickey Pass Tuff
- Tg Gravels
- TKp Hornblende diorite porphyry
- Ka Granite aplite
- Kg Undivided granitic rocks
- Kgr Granodiorite
- Kqm Leuco monzodiorite
- Klg Foliated granite
- Kgp Granodiorite porphyry
- Jm Mafic metaigneous rock
- Jrp Foliated lithic rhyolite porphyry
- Jp Preachers Formation
- Jgs Gardnerville Formation siltstone and sandstone
- Jgm Gardnerville Formation marble and limestone

- Contact** Dashed where approximately located, dotted where concealed, queried where uncertain.
- Gravel contact** Dashed where approximately located.
- Fault** Showing dip, dashed where approximately located, dotted where concealed, queried where uncertain; ball on downthrown side.
- Clay alteration along fault** Showing dip; dashed where approximately located; ball on downthrown side.
- Vein coincident with normal fault** Showing dip, dashed where approximately located; ball on downthrown side.
- Vein**
- Alunitic alteration along a structure too narrow to outline** Showing dip, ball on downthrown side.
- Silicification along a structure too narrow to outline.**
- Tourmaline - quartz vein**
- Strike and dip of bedding**
- Strike and dip of foliation in metamorphic rocks**
- Strike and dip of compaction foliation**
- Strike and dip of foliation in igneous rocks**
- Strike and dip of joints**
- Columnar joints** Showing bearing and plunge



PRELIMINARY GEOLOGIC MAP OF THE SOUTH HALF OF THE VIRGINIA CITY QUADRANGLE, NEVADA

Donald M. Hudson,  
Stephen B. Castor,  
and Larry J. Garside  
2001

Scale 1:24,000  
0 0.5 1 kilometer  
0 0.5 1 mile  
CONTOUR INTERVAL 40 FEET  
Base map: U.S. Geological Survey Virginia City  
7.5' Quadrangle, Digital Raster Graphic, 1983

Field work done in 2000-2001.  
**DRAFT**  
Preliminary geologic map. Has not undergone office or field review. May be revised before publication.  
Cartography by Robert Chaney (12004-01-01-01)  
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